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1 Routine/Function Prologues

1.0.1 define_gds.F90 (Source File: define_gds.F90)

Assigns a grid definition section (GDS) array appropriate to the global resolution used.

REVISION HISTORY:

```

20 Jul 2001: Urszula Jambor; Initial code
12 Feb 2002: Urszula Jambor; Added latmax variable assignment
06 Mar 2002: Urszula Jambor; Added 1 & 1/2 degree resolution GDS arrays
24 Feb 2004: James Geiger; Stripped routine down so it only updates
              values needed by the GrADS-DODS server

```

INTERFACE:

```
subroutine define_gds ( lis )
```

USES:

```

use lis_module      ! LDAS non-model-specific 1-D variables
#ifndef ( defined OPENDAP )
use opendap_module, only : parm_nc, parm_nr,
                           output_slat, output_nlat, &
                           output_wlon, output_elon
implicit none

```

ARGUMENTS:

```
type (lisdec):: lis
```

CONTENTS:

```
!-----
!      kgds(1) = 4 !Input grid type (4=Gaussian)
!      kgds(2) = 128 !Number of points on a lat circle
!      kgds(3) = 64 !Number of points on a meridian
!      kgds(4) = -87864 !Latitude of origin x1000
!      kgds(5) = 0 !Longitude of origin x1000
!      kgds(6) = 128 !8 bits (1 byte) related to resolution
!      !(recall that 10000000 = 128), Table 7
!      kgds(7) = 87864 !Latitude of extreme point x1000
!      kgds(8) = -2812 !Longitude of extreme point x1000
!      kgds(9) = 2812 !N/S direction increment x1000
!      kgds(10) = 32 !(Gaussian) # lat circles pole-equator
!      kgds(11) = 64 !8 bit scanning mode flag (Table 8)
!-----
lis%d%kgds(2) = parm_nc
lis%d%kgds(3) = parm_nr
lis%d%kgds(4) = output_slat
lis%d%kgds(5) = output_wlon
```

```
lis%d%kgds(7) = output_nlat
lis%d%kgds(8) = output_elon
#endif
```